

# BEST AVAILABLE COPY

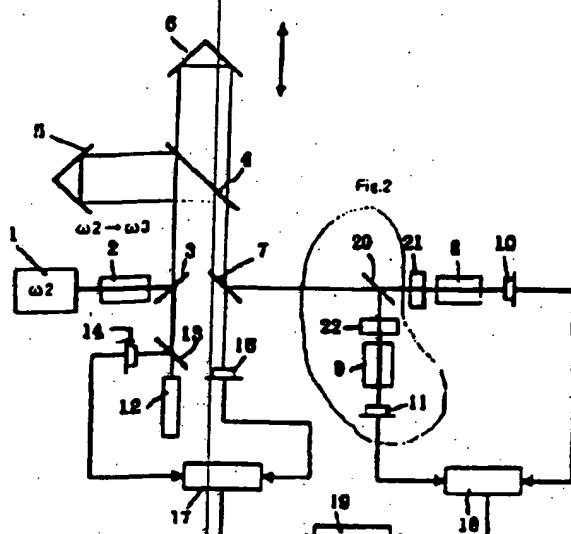
1) JP8-117083

2) Filed: Apr.15,1996

3) Inventors: Hitoshi Kawai, Jun Kawakami, Kouichi Tsukihara

4) Comment:

Reduction of crosstalk caused by light leakage at polarization beam splitter.



1:light source for index measurement

2:SHG element ( $\omega_2 \rightarrow \omega_3$ )

4:polarization beam splitter

5:reference path

6:signal path

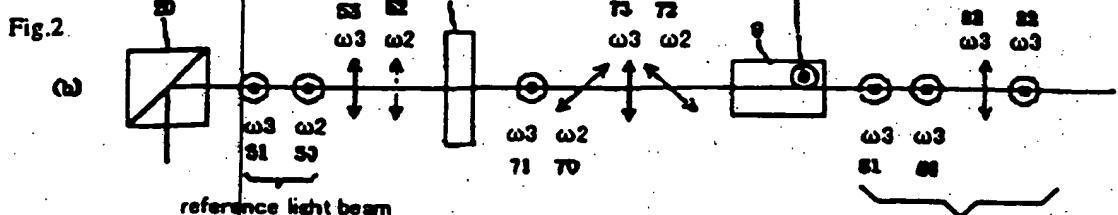
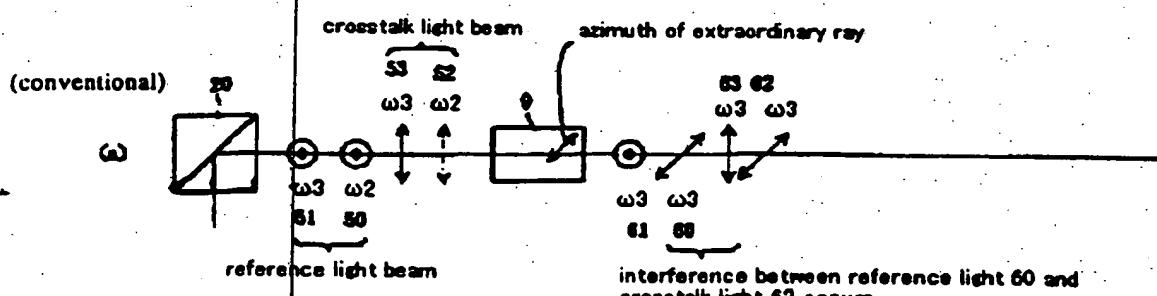
12: light source to measure stage moving  
(like He-Ne laser)

17,18: phase meter

19:calculator

20 to 11: for reference path index measurement  
(refer to Fig.2)

20 to 10: for signal path index measurement



interference between 81 and 82 occurs, but it's negligible.  
because light intensity of 82 is very weak under the action  
of SHG element 9.

9: SHG element

20: polarization beam splitter

22:It acts like  $\lambda$  plate for  $\omega_3$ , but also acts like  $\lambda/2$  plate for  $\omega_2$